Table W-1

1 of 2

Sheet No. 1.

State of [illegible]

Period from Aug. 5, to Sept. 1, 1942

Location and time of operation of each loadometer station, and number of vehicles counted and number weighed at each

Station number	Route number	Description of station location	Time of operation: Year	Month and day	Day of week	Hours	Total vehicles counted: Military	Civilian	Civilian trucks and combinations: Number counted	Number weighed	Percent weighed	Remarks
7	US10 & US93	Southeasterly leg of the 3-way junction US10 & US93 (Combined 10 & 93 to Missle)	1942	8-7	Fri.	2PM		621	103	88	85.44	Clear
			1936	8-27	Thur.	10PM		799	138	37	26.81	Clear
9	US 10	US 10 just west of junction of US 10 & 10A in Drummond	1942	8-6	Thur.	6AM		375	73	64	87.67	Clear
			1936	8-3	Mon.	2PM		497	52	25	48.08	Clear
11	US 10S & US 91S	Easterly leg(comb.US10S & US91 toward Butte)of 3-way June. US10 & 91 at Missler	1942	8-11	Tue.	6AM		712	164	143	87.20	Clear
			1936	8-7	Fri.	2PM		865	159	57	35.85	Clear
13	US 91	SW leg (US91 to Dillon)of 3-way June.US91 & Mont.41	1942	8-10	Mon.	2PM	2	419	100	91	91.00	Clear
			1936	9-4	Fri.	10PM		545	83	29	34.94	Showers
17	US10S	W leg(US10S toward Butte) of 3-way June.10S-Mont.41 About 9 mi W of Whitehall	1942	8-12	Wed.	2PM	1	465	69	69	100.00	Clear
			1936	9-12	Thur.	10PM		418	62	15	24.19	Clear
30	US310	NE leg(comb.US12-US310 to Lanrel)of 3-way June. of US 12 and US 310-Rockvale	1942	8-19	Wed.	6AM	1	389	155	142	91.61	Clear
			1936	9-3	Thur.	2PM		469	141	71	50.35	Clear
36	US89 & US91	On US89 & US91 about 1.1mi W of Great Falls	1942	8-28	Fri.	6AM	2	518	228	222	97.37	Airport Const.
			1936	9-11	Fri.	2PM		320	81	69	85.19	Clear
41	US10 & US12	SW leg (comb.US10 & 12 to Miles City) of 3-way June. US10 & 12 E of Miles City	1942	8-20	Thur.	6AM		332	92	69	75.00	Clear
			1936	7-28	Tues.	2 PM		451	76	35	46.05	Clear
43	US10	E Leg (US10 E to Glendive) of 3-way June. US10-Mont. 16 East of Glendive	1942	8-21	Fri.	2 PM		507	142	115	80.99	Cloudy
			1936	8-27	Thur.	10PM		638	165	65	39.39	Clear
45	US2	E leg(US2 to Bainville) of 3-way June. US2-Mont.16 at E city limits Culbertson	1942	8-24	Mon.	6AM		131	52	45	86.54	Clear
			1936	6-12	Fri.	2PM		254	45	45	100.00	Clear

Montana State Library
3 0864 1006 4242 3

70,000 to 74,999	75,000 to 79,999	80,000 to 84,999	85,000 to 89,999	90,000 to 94,999
4 1 2	2 1 1	1 1 1	2	3 3 1 1 3 3 1
7	4	3	2	15

Table W-1 cont'd.

State of [illegible]ana

Period from Aug. 5 to Sept. [illegible], 1942

Location and time of operation of each loadometer station, and number of vehicles counted and number weighed at each.

Sta. No.	Route No.	Description of station location	Time of Operation: Year	Month and Day	Day of Week	Hours	Total Vehic. Counted: Military	Civilian	Civilian trucks & Combinations: No. Cntd	No. Wghd	Percent Wghd	Remarks
	Mont.	On Mont.29 about 5.35 mi	1942:	9-1:	Tues.:	6AM		294	69	69	100.00	Airport Const.
50	29	NE of City Limits GreatFa[illegible]	1936:	8-10:	Mon.	2PM		294	64	63	98.44	Clear
	US87	SE leg(comb.US87-89 to N[illegible]	1942:	8-31	Mon.	6AM	5	540	119	114	95.80	Airport Const.
51	&US89	of 3-way Junc.US87 & US89	1936:	8-11	Tues.	2PM		324	88	64	72.73	Showers
		& 10th Ave.S By-pass										
		S leg (US87 to Great Falls)	1942:	8-17	Mon.	2PM		183	66	66	100.00	Clear
53	US87	of 3-way Junc.US87-Mont.16	1936:	9-10	Thur.	10PM		193	50	24	48.00	Clear
			1942:	8-14	Fri.	2PM	3	961	189	188	99.47	Clear
54	US10	US10 NE of Billings	1936:	9-11	Fri.	10PM		797	162	52	32.10	Clear

Table M-2

State of Montana

Period from Aug. 5 to Sept. 1, 1942

Number and percent of vehicles of each type counted at 14 loademeter stations during the period from Aug. 5 to Sept. 1, 1942, compared to corresponding data for 1936

Type of vehicles	Number counted during the period			Percent of total civilian vehicles		
	1942	1936	1942:1936	1942	1936	1942:1936
Military vehicles						
Passenger cars	8					
Single-unit trucks	6					
Tractor-truck and semitrailer combinations						
Trucks with trailed loads						
Busses						
Other vehicles						
Total Military	14					
Civilian vehicles						
Local passenger cars	3730	3833	0.973	57.85	55.84	1.036
Foreign passenger cars	1043	1616	0.645	16.17	23.54	0.687
Subtotal passenger cars	4773	5449	0.876	74.02	79.38	0.932
Single-unit trucks (light)	1255	1100	1.141	19.46	16.03	1.214
Single-unit trucks (medium)	116	105	1.105	1.80	1.53	1.176
Single-unit trucks (heavy)	7	34	0.206	0.11	0.50	0.220
Tractor-truck and semitrailer combinations	152	84	1.809	2.36	1.22	1.934
Truck and trailer combinations	91	43	2.093	1.41	0.63	2.238
Subtotal trucks and combinations	1621	1366	1.187	25.14	19.91	1.263
Busses	54	49	1.102	0.84	0.71	1.183
Total Civilian	6448	6864	0.939	100.00	100.00	1.000

Table W-3

Period from Aug. 5 to Sept. 1, 1942

State of Montana

Percentages loaded and empty and average total weights, average empty weights and average maximum axle load of civilian trucks and combinations of each type at 14 loadometer stations during the period from Aug. 5 to Sept. 1, 1942 compared to corresponding data for 1936.

Vehicle type and survey year	Loaded and empty vehicles		Loaded vehicles				Empty vehicles		
	Distribution by type[1]	Average weight	Percent of total loaded and empty of each type	Distribution by type	Average total weight	Average maximum axle load	Percent of total loaded and empty of each type	Distribution by type	Average empty weight
	(percent)	(pounds)	(percent)	(percent)	(pounds)	(pounds)	(percent)	(percent)	(pounds)
Single-unit trucks (light)									
Year 1942	77.42	7,098	34.78	69.98	11,002	8,075	65.22	82.07	5,016
Year 1936	80.53	4,073	53.41	77.71	5,036	3,534	46.59	84.03	2,968
Ratio 1942:1936	0.961	1.743	0.651	0.901	2.185	2.285	1.400	0.977	1.690
Single-unit trucks (medium)									
Year 1942	7.16	15,345	44.57	8.29	20,802	12,400	55.43	6.45	10,956
Year 1936	7.68	8,672	56.87	7.89	10,967	7,899	43.13	7.41	5,526
Ratio 1942:1936	0.932	1.769	0.784	1.051	1.897	1.570	1.285	0.870	1.983
Single-unit trucks (heavy)									
Year 1942 *	0.43	20,875	25.00	0.29	23,100	8,000	75.00	0.52	20,133
Year 1936	2.49	17,233	66.67	3.00	20,050	8,050	33.33	1.86	11,600
Ratio 1942:1936	0.173	1.211	0.375	0.097	1.152	0.994	2.250	0.280	1.736
Tractor-truck semitrailers									
Year 1942	9.38	28,760	52.41	12.79	38,520	15,513	47.59	7.25	18,010
Year 1936	6.15	20,809	67.39	7.48	24,548	11,335	32.61	4.50	13,080
Ratio 1942:1936	1.525	1.382	0.778	1.710	1.569	1.369	1.459	1.611	1.377
Truck and trailers									
Year 1942	5.61	39,826	59.34	8.65	51,698	14,946	40.66	3.71	23,376
Year 1936	3.15	24,056	68.75	3.92	27,727	10,018	31.25	2.20	15,900
Ratio 1942:1936	1.781	1.656	0.863	2.207	1.843	1.492	1.301	1.686	1.463
Total all types									
Year 1942	100.00	11,767	38.59	100.00	19,153	10,019	61.41	100.00	7126
Year 1936	100.00	11,479	57.64	100.00	15,611	11,059	42.36	100.00	5857
Ratio 1942:1936	1.000	1.025	0.669	1.000	1.227	0.906	1.450	1.000	1.217

1. Distribution by type of the total civilian trucks and combinations counted during the period, calculated from table W-2.

* One loaded truck weighed

Table W-4

Period from Aug. 5 to Sept. 1, 1942

State of Montana

Number of axle loads of various magnitudes per 100 loaded and empty civilian trucks and combinations of each type at 14 loadometer stations during the period from Aug. 5 to Sept. 1, 1942, compared to corresponding data for 1936.

Axle load in pounds	Single-unit trucks						Tractor-truck semitrailers		Truck and trailers		All trucks and combinations	
	Light		Medium		Heavy							
	1942	1936	1942	1936	1942	1936	1942	1936	1942	1936	1942	1936
Under 8,000	142.8	161.1	12.4	13.3	1.0	4.2	20.7	14.2	13.6	8.5	190.5	201.3
8,000 - 8,499	1.3		0.2	0.4	0.1	0.4	0.5	0.4	1.4	0.8	3.5	2.0
8,500 - 8,999	1.0		0.2	0.1	0.2		0.6	0.3	0.9		2.9	0.4
9,000 - 9,499	0.5		0.2	0.4			0.5	0.9	0.6	0.6	1.8	1.9
9,500 - 9,999	0.9		0.3	0.2		0.4	0.5	0.1	1.0		2.7	0.7
10,000 - 10,999	2.3		0.7	0.4		0.4	0.9	0.7	0.7	0.2	4.6	1.7
11,000 - 11,999	1.5		0.9	0.3			1.2	0.4	1.3	0.6	4.9	1.3
12,000 - 12,999	1.7		0.3	0.2		0.8	1.5	0.4	1.1	0.4	4.6	1.8
13,000 - 13,999	1.1		0.5	0.2			1.3	0.7	0.9	0.8	3.8	1.7
14,000 - 14,999	1.2		0.4	0.1			0.8	1.1	0.9	0.4	3.3	1.6
15,000 - 15,999	0.5		0.3	0.1			1.1	0.5	1.0		2.9	0.6
16,000 - 16,999							0.8	0.3	0.6		1.4	0.3
17,000 - 17,999			0.1				1.7		1.0	0.2	2.8	0.2
18,000 - 18,999	0.1		0.1				0.5		0.5		1.2	
19,000 - 19,999	0.2						0.5	0.1	0.1		0.8	0.1
20,000 - 21,999			0.2						0.1		0.3	
22,000 - 23,999												
24,000 - 25,999												
26,000 - 27,999												
28,000 - 29,999												
30,000 - 34,999												
35,000 - 39,999												
Total	155.1	161.1	16.8	15.7	1.3	6.2	33.1	20.1	25.7	12.5	232.0	215.6

Table W-5

Period from Aug. 5 to Sept. 1, 1942

State of Montana

Percentage frequency distribution of total weights of loaded and empty civilian trucks and combinations of each type at 14 loadometer stations during the period from Aug. 5 to Sept. 1, 1942, compared to corresponding data for 1936

Total weight in pounds	Single-unit trucks						Tractor-truck semitrailer		Truck and trailers		All trucks and combinations	
	Light		Medium		Heavy							
	1942	1936	1942	1936	1942	1936	1942	1936	1942	1936	1942	1936
Under 10,000	80.57	100.00	29.35	66.20		16.67	1.37	17.39	3.30	18.75	78.60	92.96
10,000 - 11,999	4.34		13.04	11.73		16.67	2.75	6.52		18.75	4.35	2.04
12,000 - 13,999	4.42		9.78	8.66		16.67	4.83	2.17	1.10	6.25	4.45	1.45
14,000 - 15,999	4.16		9.78	6.42		16.67	8.97	4.35	1.10		4.26	1.11
16,000 - 17,999	2.34		8.70	2.79			6.90	6.52	2.20	12.50	2.45	0.59
18,000 - 19,999	1.22		5.43	1.12	25.00		5.52	8.70	7.69		1.35	0.32
20,000 - 21,999	1.56		5.43	0.56	50.00		10.34	10.87	7.69		1.75	0.27
22,000 - 23,999	1.30		4.35	1.96	25.00		6.21	4.35	4.40		1.41	0.38
24,000 - 25,999			1.09	0.28		16.66	4.14	6.52	3.30	6.25	0.09	0.18
26,000 - 27,999			4.35	0.28			3.45	8.70	1.10		0.09	0.19
28,000 - 29,999			6.52				1.38	6.52	2.20	6.25	0.08	0.12
30,000 - 34,999	0.09		2.18			16.66	7.59	13.04	10.98	6.25	0.27	0.24
35,000 - 39,999							11.72	4.35	2.20	6.25	0.19	0.09
40,000 - 44,999							10.34		5.49		0.18	
45,000 - 49,999							6.90		9.89	6.25	0.16	0.02
50,000 - 54,999							6.90		16.48	12.50	0.19	0.04
55,000 - 59,999									8.79		0.05	
60,000 - 64,999									6.59		0.04	
65,000 - 69,999							0.69		3.30		0.03	
70,000 - 74,999									2.20		0.01	
75,000 - 79,999												
80,000 - 84,999												
85,000 - 89,999												
90,000 - 94,999												
95,000 - 99,999												
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Table W-6

State of Montana

Period from Aug. 5 to Sept. 1, 1942

Listing showing total weight, axle loads, and axle spacing of single-unit trucks weighing 13 tons or more and of combinations weighing 17 tons or more at ~~10~~ 14 loadometer stations during the period from Aug. 5, to Sept. 1, 1942.

Vehicle type designation	Total weight	Axle loads					Axle spacing					Maximum value of c[1]		Station at which weighed
		A	B	C	D	E	A - B	B - C	C - D	D - E	Wheel base	Value	Axle group[2]	
	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(feet)	(feet)	(feet)	(feet)	(feet)			
2X20	40700	6500	16500	9000	8700		13.2	13.1	4.0		30.3	599	B-D	7
2000	28300	7900	20400				13.4				13.4	530	A-B	9
2X20	35400	6700	14900	6900	6900		13.2	15.2	4.0		32.4	485	B-D	9
2X20	36800	4700	13900	9200	9000		12.2	18.8	4.6		35.6	487	A-D	9
2X10	43900	7200	17900	18800			14.9	17.2			32.1	642	B-C	9
3003	40800	8600	10800	12500	4400	4500	13.8	4.4	13.4	18.0	49.6	548	A-C	9
3X20	52900	8500	11800	11900	9900	10800	14.4	4.0	16.6	4.0	39.0	687	B-E	9
3003	47300	7900	10200	12000	9700	7500	13.8	4.4	13.4	18.0	49.6	556	A-D	9
2003	59100	6700	20400	11100	13500	7400	13.5	9.0	17.9	31.0	71.4	673	B-D	9
3000	27100	6500	10500	10100			13.1	3.1			16.2	482	A-C	11
3000	28000	6200	10800	11000			13.1	3.1			16.2	506	B-C	11
3000	28800	6500	11300	11000			13.1	3.1			16.2	517	B-C	11
3000	31500	5400	13300	12800			16.2	4.4			20.6	588	B-C	11
2002	44000	7600	19900	7400	9100		15.2	8.4	10.3		33.9	620	B-D	11
3003	41200	8400	9600	10900	7500	4800	13.9	4.3	13.1	17.9	49.2	497	A-C	11
2X20	50300	5200	18700	12700	13700		13.6	15.4	4.2		33.2	757	B-D	11
3003	50000	8100	8900	10600	9100	13300	13.9	4.3	13.1	17.9	49.2	561	A-E	11
3X20	64100	8300	13700	13000	13600	15500	14.5	4.1	16.8	4.0	39.4	860	B-E	11
3003	41800	8500	11200	11000	5900	5200	16.5	4.4	12.7	12.9	46.5	500	B-C	17
3002	51300	8800	11000	12400	9400	9700	18.0	4.0	14.0	19.5	55.5	566	B-D	17

1. Highest value of 'c' in the formula: $c = \frac{W}{L + 40}$ in which L is the distance in feet between the first and last axle of the vehicle or of any interior group of axles, and W is the total weight of the vehicle or of the interior group of axles.

2. Designate the outside axles of the group having the highest value of c in the formula as, for example, 'B-C', or 'A-C.'

State of Montana

Period from Aug. 5 to Sept. 1, 1942

Listing showing total weight, axle loads, and axle spacing of single-unit trucks weighing 13 tons or more and of combinations weighing 17 tons or more at ~~10~~ 14 loadometer stations during the period from Aug. 5 to Sept. 1, 1942.

Vehicle type designation	Total weight	Axle loads					Axle spacing					Maximum value of c[1]		Station at which weighed
		A	B	C	D	E	A - B	B - C	C - D	D - E	Wheel base	Value	Axle group[2]	
	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(feet)	(feet)	(feet)	(feet)	(feet)			
2X20	51300	6500	19200	11600	14000		15.0	18.4	4.0		37.4	718	B-D	17
2002	59500	8300	18500	15400	17300		14.9	10.3	15.2		40.4	782	B-D	17
3003	54300	9900	12900	13500	11100	6900	18.5	4.0	14.0	12.0	48.5	647	B-D	17
3003	52600	9900	11400	12700	9400	9200	13.5	4.4	13.3	18.3	49.5	610	A-D	17
3003	60600	6600	13000	15400	15800	9800	13.5	4.4	13.3	18.3	49.5	766	B-D	17
3000	28000	4900	13400	9700			13.3	3.5			16.8	531	B-C	30
2000	28100	7000	21100				17.3				17.3	490	A-B	30
3000	28400	4900	13500	10000			13.3	3.5			16.8	541	B-C	30
2001	34900	4300	15900	14700			12.8	13.2			26.0	575	B-C	30
2X20	35900	3000	7400	13000	12500		11.3	12.7	4.0		28.0	580	C-D	30
2X10	36000	5400	17900	12700			15.2	17.7			32.9	530	B-C	30
2X10	37100	4600	15000	17500			13.3	17.3			30.6	567	B-C	30
2X10	37600	4500	15300	17800			13.0	17.7			30.7	574	B-C	30
2X10	40500	5100	18000	17400			13.7	15.9			29.6	633	B-C	30
2X10	41600	7600	19400	14600			15.7	17.5			33.2	591	B-C	30
3X20	45000	4100	9600	8700	11500	11100	13.3	3.5	15.2	3.5	35.5	658	B-E	30
2002	45400	5500	18000	9800	12100		14.8	11.9	12.3		39.0	621	B-D	30
2X20	46100	6000	17400	11500	11200		13.3	16.4	4.0		33.7	664	B-D	30
2X20	47300	5300	17600	11800	12600		13.3	17.1	4.0		34.4	687	B-D	30
2002	48000	6100	14100	13800	14000		13.1	9.6	9.9		32.6	704	B-D	30

1. Highest value of 'c' in the formula: $c = \frac{W}{L + 40}$ in which L is the distance in feet between the first and last axle of the vehicle or of any interior group of axles, and W is the total weight of the vehicle or of the interior group of axles.

2. Designate the outside axles of the group having the highest value of c in the formula as, for example, 'B-C', or 'A-C.'

State of Montana Period from Aug. 5 to Sept. 1, 1942

Listing showing total weight, axle loads, and axle spacing of single-unit trucks weighing 13 tons or more and of combinations weighing 17 tons or more at 14 loadometer stations during the period from Aug. 5 to Sept. 1, 1942.

Vehicle type designation	Total weight	Axle loads					Axle spacing					Maximum value of c[1]		Station at which weighed
		A	B	C	D	E	A - B	B - C	C - D	D - E	Wheel base	Value	Axle group[2]	
	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(feet)	(feet)	(feet)	(feet)	(feet)			
2002	48800	7300	16800	12500	12200		15.9	10.5	9.7		36.1	689	B-D	30
3002	49300	5600	11300	10300	10800	11300	13.1	3.5	10.5	10.9	38.0	673	B-E	30
2X20	49500	6100	17600	14000	11800		13.5	16.7	4.1		34.3	714	B-D	30
2X20	50300	6500	16800	13100	13900		13.5	1.5	4.1		19.1	961	B-D	30
3002	50400	5300	11400	10300	11700	11700	12.9	3.4	10.9	9.5	36.7	707	B-E	30
3002	50700	6100	12400	11900	9700	10600	13.2	3.5	10.7	9.5	36.9	700	B-E	30
2X20	51000	5500	17000	15400	13100		13.9	15.3	3.5		32.7	774	B-D	30
2X20	52000	6600	19400	12900	13100		13.5	14.5	4.1		32.1	775	B-D	30
2002	53100	6600	16900	14500	15100		13.7	12.3	13.7		39.7	705	B-D	30
2002	53100	6300	17600	14300	14900		13.8	9.9	13.8		37.5	735	B-D	30
2002	53400	6400	17800	14000	15200		13.3	8.5	14.0		35.8	752	B-D	30
2002	53700	7000	17200	14600	14900		13.7	10.9	12.7		37.3	734	B-D	30
2002	54200	6700	17000	14900	15600		13.3	11.5	13.1		37.9	735	B-D	30
2002	54600	6600	17000	15600	15400		13.5	13.1	13.5		40.1	721	B-D	30
2002	55700	6700	17800	14600	16600		13.5	12.5	14.1		40.1	736	B-D	30
2002	56100	6500	17000	16700	15900		13.3	12.9	13.3		39.5	749	B-D	30
2002	57000	6700	17300	16000	17000		13.5	15.0	13.9		42.4	730	B-D	30
3000	30100	5100	13700	11300			14.1	3.9			18.0	569	B-C	36
2X10	36300	5000	15100	16200			14.3	15.8			30.1	561	B-C	36
2X10	37400	4700	15800	16900			15.0	17.0			32.0	574	B-C	36

1. Highest value of 'c' in the formula: $c = \frac{W}{L + 40}$ in which L is the distance in feet between the first and last axle of the vehicle or of any interior group of axles, and W is the total weight of the vehicle or of the interior group of axles.

2. Designate the outside axles of the group having the highest value of c in the formula as, for example, 'B-C', or 'A-C.'

State of Montana Period from Aug. 5, to Sept. 1, 1942

Listing showing total weight, axle loads, and axle spacing of single-unit trucks weighing 13 tons or more and of combinations weighing 17 tons or more at 15 loadometer stations during the period from Aug. 5 to Sept. 1, 1942.

Vehicle type designation	Total weight	Axle loads					Axle spacing					Maximum value of c[1]		Station at which weighed
		A	B	C	D	E	A - B	B - C	C - D	D - E	Wheel base	Value	Axle group[2]	
	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(feet)	(feet)	(feet)	(feet)	(feet)			
2X20	46500	5400	15900	12500	12700		13.4	13.7	4.0		31.1	712	B-D	36
2002	53500	8000	17300	12900	15300		14.9	10.5	12.1		37.5	727	B-D	36
3X20	53800	8700	12700	12500	8300	11600	14.5	4.0	1.7	4.3	24.5	902	B-E	36
2002	54100	8000	18200	12000	15900		14.9	10.5	12.0		37.4	738	B-D	36
2002	54800	7500	15400	15800	16100		10.3	11.7	17.3		39.3	691	A-E	36
2003	60600	8600	18000	13600	9900	10500	17.7	12.7	14.7	3.9	49.0	729	B-E	36
3002	69700	8000	13300	13600	16500	18300	17.7	4.0	14.7	18.3	54.7	801	B-E	36
3002	71800	9600	13300	14400	16300	18200	15.3	4.0	15.0	18.3	52.6	805	B-E	36
2X10	40200	5700	17400	17100			16.3	18.6			34.9	589	B-C	41
2X10	40600	4800	17800	18000			14.1	17.5			31.6	623	B-C	41
2X10	41300	5900	17800	17600			17.7	13.3			31.0	664	B-C	41
2X20	41300	5400	14300	11100	10500		13.2	12.7	4.0		29.9	633	B-D	41
3003	36800	8200	6900	6900	9000	5800	18.7	4.3	14.5	10.5	48.0	418	A-E	41
2X20	46400	7100	13800	13300	12200		15.9	16.0	4.3		36.2	652	B-D	41
2X20	48200	5900	16900	12900	12500		13.5	17.7	3.9		35.1	687	B-D	41
2X20	50300	6600	18000	12900	12800		13.3	18.0	4.0		35.3	705	B-D	41
2X10	36300	4700	15800	15800			11.3	15.0			26.3	575	B-C	43
2X10	37400	4800	16800	15800			13.7	16.9			30.6	573	B-C	43
2X10	38600	4200	17900	16500			12.3	20.1			32.4	572	B-C	43
2X20	39200	4800	12800	10900	10700		13.2	12.1	4.0		29.3	613	B-D	43

1. Highest value of 'c' in the formula: $c = \frac{W}{L + 40}$ in which L is the distance in feet between the first and last axle of the vehicle or of any interior group of axles, and W is the total weight of the vehicle or of the interior group of axles.

2. Designate the outside axles of the group having the highest value of c in the formula as, for example, 'B-C', or 'A-C.'

Table W-6

State of Montana

Period from Aug. 5 to Sept. 1, 1942

Listing showing total weight, axle loads, and axle spacing of single-unit trucks weighing 13 tons or more and of combinations weighing 17 tons or more at 14 loadometer stations during the period from Aug. 5 to Sept. 1, 1942.

Vehicle type designation	Total weight	Axle loads					Axle spacing					Maximum value of c[1]		Station at which weighed
		A	B	C	D	E	A - B	B - C	C - D	D - E	Wheel base	Value	Axle group[2]	
	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(feet)	(feet)	(feet)	(feet)	(feet)			
2X10	41100	6400	17600	17100			13.5	18.0			31.5	598	B-C	43
2X10	43200	6500	19200	17500			12.6	18.5			31.1	627	B-C	43
2X20	43200	5900	17400	10400	10500		12.7	21.7	4.0		38.4	583	B-D	43
2X20	46300	6300	17000	12000	11000		13.5	17.5	3.9		34.9	651	B-D	43
2003	49700	6000	17700	9800	8300	7900	17.1	11.5	12.7	3.5	44.8	645	B-C	43
2002	57300	7900	16400	15600	17400		14.9	10.1	15.1		40.1	758	B-D	43
3000	32100	5200	14700	12200			14.0	3.7			17.7	616	B-C	50
2002	44000	5100	17800	11000	10100		13.7	11.9	11.9		37.5	610	B-D	50
3003	36700	8900	9900	9700	4900	3300	16.9	4.5	12.5	12.9	46.8	440	B-C	51
3000	27500	5000	11500	11000			15.6	4.2			19.8	509	B-C	54
2X10	34400	4200	13600	16600			12.8	13.3			26.1	567	B-C	54
3003	31400	8100	7400	6800	4600	4500	13.7	4.3	13.3	18.0	49.3	352	A-E	54
2X10	36500	6100	15700	14700			15.2	18.6			33.8	519	B-C	54
2X10	37500	4900	16700	15900			13.7	16.8			30.5	574	B-C	54
2X10	37800	4100	17000	16700			13.3	15.1			28.4	612	B-C	54
2X10	40400	6300	17300	16800			14.8	16.5			31.3	604	B-C	54
2X10	40900	6700	17000	17200			15.0	18.3			33.3	587	B-C	54
2X10	41000	6300	17100	17600			16.3	18.6			34.9	592	B-C	54
2X10	42400	6500	17900	18000			15.1	18.1			33.2	618	B-C	54
3003	39300	9500	8300	7900	8900	4700	18.0	4.0	14.7	11.9	48.6	444	A-E	54

1. Highest value of 'c' in the formula: $c = \frac{W}{L + 40}$ in which L is the distance in feet between the first and last axle of the vehicle or of any interior group of axles, and W is the total weight of the vehicle or of the interior group of axles.

2. Designate the outside axles of the group having the highest value of c in the formula as, for example, 'B-C', or 'A-C.'

State of Montana

Period from Aug. 5 to Sept. 1, 1942

Listing showing total weight, axle loads, and axle spacing of single-unit trucks weighing 13 tons or more and of combinations weighing 17 tons or more at 14 loadometer stations during the period from Aug. 5 to Sept. 1, 1942.

Vehicle type designation	Total weight	Axle loads					Axle spacing					Maximum value of c[1]		Station at which weighed
		A	B	C	D	E	A - B	B - C	C - D	D - E	Wheel base	Value	Axle group[2]	
	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(feet)	(feet)	(feet)	(feet)	(feet)			
2X20	46100	5700	18700	11900	9800		13.5	18.5	4.2		36.2	644	B-D	54
2002	48500	6900	17000	12100	12500		13.5	18.1	4.0		35.6	670	B-D	54
3003	51400	9200	9800	11000	10000	11400	13.7	4.3	13.7	22.0	53.7	549	A-E	54
2X20	51700	5600	19100	12900	14100		13.5	18.3	4.0		35.8	740	B-D	54
3003	51800	8000	18100	11900	6500	7300	17.8	10.0	10.0	4.0	41.8	684	B-E	54
2X20	52500	5800	19600	13500	13600		13.5	18.5	4.3		36.3	744	B-D	54
3003	49500	7400	11300	11400	10100	9300	13.7	4.3	13.3	18.0	49.3	569	B-D	54
2002	57900	8200	16300	15900	17500		15.0	11.9	15.1		42.0	742	B-D	54
3003	56600	10500	11800	11600	15300	7400	18.1	4.0	14.9	13.5	50.5	657	B-D	54
3003	56100	8500	12900	12500	14700	7500	13.7	4.3	13.3	18.0	49.3	696	B-D	54
3003	58100	6600	12000	14300	14900	10300	13.7	4.3	13.3	18.0	49.3	715	B-D	54
2003	62100	5500	16000	13000	11700	13900	27.7	12.5	14.6	4.0	48.8	796	B-E	53
2X10	35600	5400	15800	14400			11.3	13.9			25.2	560	B-C	53
2120	48200	6100	16700	12800	12600		12.3	20.0	3.8		36.1	660	B-D	53

1. Highest value of 'c' in the formula: $c = \frac{W}{L + 40}$ in which L is the distance in feet between the first and last axle of the vehicle or of any interior group of axles, and W is the total weight of the vehicle or of the interior group of axles.

2. Designate the outside axles of the group having the highest value of c in the formula as, for example, 'B-C', or 'A-C.'

Table W-7

Period from Aug 5 to Sept. 1, 1942

State of Montana

Number of loaded vehicles in each total weight group and in each group of ratios of total weight to total tire capacity, recorded at 20 loadometer stations.

Total weight in pounds	Ratio of total weight to total tire capacity																Total
	Under 0.50	0.50 to 0.59	0.60 to 0.69	0.70 to 0.79	0.80 to 0.89	0.90 to 0.99	1.00 to 1.09	1.10 to 1.19	1.20 to 1.29	1.30 to 1.39	1.40 to 1.49	1.50 to 1.59	1.60 to 1.69	1.70 to 1.79	1.80 to 1.89	1.90 to 1.99	2.14	
Under 10,000	4	17	20	44	36	42	52	21	19	2	3		2					262
10,000 - 11,999			3	10	15	23	4	2		2		1						60
12,000 - 13,999	1		2	5	9	16	23	7	1					1		1		66
14,000 - 15,999			1	1	4	19	13	12	9				1	1	3			64
16,000 - 17,999	1		1	1	1	4	10	22		9								49
18,000 - 19,999					2			13	60	28	1	10		1	1		1	117
20,000 - 21,999			1	2	1	2	7	2	11	9	6							41
22,000 - 23,999	1	2	2	1	2	2	1	2		1	11	9						34
24,000 - 25,999					1	1	1	1		1								5
26,000 - 27,999			1	4		3	2											10
28,000 - 29,999			1		6		4	2			1							14
30,000 - 34,999		3		1	8	7	4	1	2		1							27
35,000 - 39,999			1	1	4	10	10	1	1									28
40,000 - 44,999	3			1	2	5	9	3										23
45,000 - 49,999	2	1			7	9	7	1										27
50,000 - 54,999		1	2	4	4	16	5	2										34
55,000 - 59,999			1	1	1	9												12
60,000 - 64,999			3	3	3		1											10
65,000 - 69,999				3	1													4
70,000 - 74,999				1	1													2
75,000 - 79,999																		
80,000 - 84,999																		
85,000 - 89,999																		
90,000 - 94,999																		
95,000 - 99,999																		
Total	12	24	39	83	108	168	153	92	103	52	23	20	3	3	4	1	1	889

Table E-8

Period from Aug. 5 to Sept. 1, 1942

State of Montana

Number of axles of loaded vehicles in each axle load group and in each group of ratios of axle load to axle tire capacity, recorded at 20 loadometer stations.

Axle load in pounds	Ratio of axle load to axle tire capacity																																Total
	Under 0.50	0.50 to 0.59	0.60 to 0.69	0.70 to 0.79	0.80 to 0.89	0.90 to 0.99	1.00 to 1.09	1.10 to 1.19	1.20 to 1.29	1.30 to 1.39	1.40 to 1.49	1.50 to 1.59	1.60 to 1.69	1.70 to 1.79	1.80 to 1.89	1.90 to 1.99	2.00 to 2.09	2.10 to 2.19	2.20 to 2.29	2.30 to 2.39	2.40 to 2.49	2.50 to 2.59	2.60 to 2.69	2.70 to 2.79	2.80 to 2.89	2.90 to 2.99	3.00 to 3.09	3.10 to 3.19	3.20 to 3.29	3.30 to 3.39	3.40 to 3.49	3.50 to 3.59	
Under 8,000	70	65	146	245	252	146	121	76	42	23	12	11	6	8	1	3	1	1	1														1210
8,000 - 8,499	4	1		8	4	11	16	1																									45
8,500 - 8,999		4	1	4	6	16	9	3	1			1			1	1																	47
9,000 - 9,499		7	4		9		6	4																									30
9,500 - 9,999		8	6	5	9	3	9	6	3																								49
10,000 -10,999		5	18	12		33	1	21	5	2			1					1	1			1											101
11,000 -11,999			12	13	17		34		8	5	5									1													95
12,000 -12,999				27	13	14	1	28	1	9	8	1	1				1					2	1										101
13,000 -13,999				8	22	8	2	5	18		4	1																					68
14,000 -14,999				1	16	11	11		6	29			6								1												81
15,000 -15,999					9	34	2	8		32	34			11			1						1										152
16,000 -16,999					1	11	21	7	8		1	15																					64
17,000 -17,999				1	1	27	14	12	1			8	7																				71
18,000 -18,999							10	11		1			1																				23
19,000 -19,999				1			4	1	4	1				4																			15
20,000 -21,999								3	3																								6
22,000 -23,999													1																				1
24,000 -25,999												1																					1
26,000 -27,999																																	
28,000 -29,999																																	
30,000 -34,999																																	
35,000 -39,999																																	
Total	74	90	187	325	339	314	261	186	100	102	78	38	23	23	2	4	2	2	2	1	1	1	2	1	1	1							2160

Table W-9

Period from Aug. 5 to Sept. 1 1942

State of Montana

Number of loaded vehicles in each group of ratios of total weight to total capacity and in each group of maximum ratios of axle load to axle tire capacity, recorded at 20 loadometer stations.

Ratio of total weight to total tire capacity	Maximum ratio of axle load to axle tire capacity for any axle																						Total
	Under 0.50	0.50 to 0.59	0.60 to 0.69	0.70 to 0.79	0.80 to 0.89	0.90 to 0.99	1.00 to 1.09	1.10 to 1.19	1.20 to 1.29	1.30 to 1.39	1.40 to 1.49	1.50 to 1.59	1.60 to 1.69	1.70 to 1.79	1.80 to 1.89	1.90 to 1.99	2.00-2.09	2.10-2.19	2.20-2.29	2.30-2.39	2.40-2.49	2.50-2.59	
Under 0.50		3	3	1	1	1	2	1															12
0.50 - 0.59		6	6	7	2	2	1																24
0.60 - 0.69			9	19	3	4	2	1	1														39
0.70 - 0.79				22	33	13	9	1	3	2													83
0.80 - 0.89					24	60	15	7	1		1												108
0.90 - 0.99						37	82	38	8	3													168
1.00 - 1.09						2	21	74	36	10	6	2	1					1					153
1.10 - 1.19								9	33	34	9	4	1	2									92
1.20 - 1.29									5	27	51	9	5	4	1	1							103
1.30 - 1.39										23	11	7	8	2		1							52
1.40 - 1.49												11	8	1		2	1						23
1.50 - 1.59												5		14	1								20
1.60 - 1.69																		1	1	1			3
1.70 - 1.79																	1		1	1			3
1.80 - 1.89																					1	2	4
1.90 - 1.99																						1	1
2.14																							1
Total		9	18	49	63	119	132	131	87	99	78	38	23	23	2	4	2	2	2	1	1	2	889

Table W-10

State of Montana

Number of axles of loaded vehicles with various numbers of tires in good, fair and poor condition, in each group of ratios of axle load to axle tire capacity, recorded at 20 loadometer stations.

Period from Aug. 5 to Sept. 1, 1942

Number of tires of each condition on axle				Ratio of axle load to axle tire capacity																											Total
Total	Good	Fair	Poor	Under 0.50	0.50 to 0.59	0.60 to 0.69	0.70 to 0.79	0.80 to 0.89	0.90 to 0.99	1.00 to 1.09	1.10 to 1.19	1.20 to 1.29	1.30 to 1.39	1.40 to 1.49	1.50 to 1.59	1.60 to 1.69	1.70 to 1.79	1.80 to 1.89	1.90 to 1.99	2.00-2.09	2.10-2.19	2.20-2.29	2.30-2.39	2.40-2.49	2.50-2.59	2.60-2.69	2.70-2.79	2.80-2.89	2.90-2.99	3.00-3.09	3.10-3.19	3.20-3.29	3.30-3.39	
2	2			5	23	91	152	136	113	95	64	31	19	8	10	5	7	1	3		1	2	1	1		1			1		1	771
2	1	1		1		2	7	12	3	5	1	1		1			1			1											35
2	1		1					1																								1
2		2		5	19	27	60	58	28	30	13	11	4	3	1	1			1						1	1				1		264
2		1	1				1	1	1				1																			4
2			2	1	3	5	2	3	1	1	1	1																				18
4	4			30	21	30	63	65	85	70	48	39	51	60	13	16	15				1												607
4	3	1		2	7	3	4	8	10	9	6	2	6	1	4																		62
4	3		1					1			1																						2
4	2	2		8	4	6	11	17	30	22	13	6	12	2	2																		133
4	2	1	1																														
4	2		2					1				1		1																			3
4	1	3		1	2	3	3	2	5	9	3		1																				29
4	1	2	1																														
4	1	1	2																														
4	1		3	1							1																						2
4		4		15	10	16	18	25	28	19	31	6	7	2	7	1		1			1												187
4		3	1	1		1		1			2	1																					6
4		2	2	2					2																								4
4		1	3	1		3	2	7	8	1	2	1	1																				26
4			4	1	1		2	1							1																		6
Total				74	90	187	325	339	314	261	186	100	102	78	38	23	23	2	4		2	2	2	1	1		1	2			1	1	1	2160

Table W-11A

Two-axled vehicles

State of Montana

Number of loaded vehicles in each total weight group and in each total tire capacity group, recorded at 20 loadometer stations.

Period from Aug. 5 to Sept. 1, 1942

Total weight in pounds	Total tire capacity in pounds													
	Under 18,000	18,000 to 19,999	20,000 to 21,999	22,000 to 23,999	24,000 to 25,999	26,000 to 27,999	28,000 to 29,999	30,000 to 34,999	35,000 to 39,999	40,000 to 44,999	45,000 to 49,999	50,000 to 54,999	55,000 to 59,999	60,000 to 64,999
Under 18,000	485	4	1		1									
18,000 - 19,999	115		1											
20,000 - 21,999	26	8	1	2	1									
22,000 - 23,999	20		2	1										
24,000 - 25,999				1										
26,000 - 27,999														
28,000 - 29,999			1	1	1									
30,000 - 34,999					1									
35,000 - 39,999														
40,000 - 44,999														
45,000 - 49,999														
50,000 - 54,999														
55,000 - 59,999														
60,000 - 64,999														
65,000 - 69,999														
70,000 - 74,999														
75,000 - 79,999														
80,000 - 84,999														
85,000 - 89,999														
90,000 - 94,999														
95,000 - 99,999														
Total	646	12	6	5	4									

Table W-11B

Vehicles with 3 or more axles

State of Montana

Number of loaded vehicles in each total weight group and in each total tire capacity group, recorded at 20 loadometer stations.

Period from Aug. 5 to Sept. 1, 1942

Total weight in pounds	Total tire capacity in pounds													
	Under 18,000	18,000 to 19,999	20,000 to 21,999	22,000 to 23,999	24,000 to 25,999	26,000 to 27,999	28,000 to 29,999	30,000 to 34,999	35,000 to 39,999	40,000 to 44,999	45,000 to 49,999	50,000 to 54,999	55,000 to 59,999	60,000 to 64,999
Under 18,000	2	4		1		2		1						
18,000 - 19,999			1											
20,000 - 21,999						2		1						
22,000 - 23,999		1		2		2	1	2		2	1			
24,000 - 25,999		1		1	1			1						
26,000 - 27,999						5		2	1	2				
28,000 - 29,999						4		6			1			
30,000 - 34,999					2		2	9	8	2		1	1	1
35,000 - 39,999							1	2	17	5	2		1	
40,000 - 44,999									8	8	1	3		
45,000 - 49,999										1	9	10	4	
50,000 - 54,999											4	8	14	1
55,000 - 59,999													2	7
60,000 - 64,999														1
65,000 - 69,999														
70,000 - 74,999														
75,000 - 79,999														
80,000 - 84,999														
85,000 - 89,999														
90,000 - 94,999														
95,000 - 99,999														
Total	2	6	1	4	3	15	4	24	34	20	18	22	22	10